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				2151	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/777,655	JEON, YOUNG JAE				
Office Action Summary	Examiner	Art Unit				
	Glenford Madamba	2151				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status		·				
1) Responsive to communication(s) filed on 2/13/2004.						
2a)☐ This action is FINAL . 2b)☒ This	2a) This action is FINAL . 2b) ⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-25</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)☐ Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-25</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>13 February 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate Patent Application (PTO-152)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application (FTO-132)				
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Ac	ction Summary Pa	art of Paper No./Mail Date 20050329				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1- 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hofrichter, WO 02/37217 A2 in view of Aizu et al (hereinafter Aizu), U.S. Patent 6,838,978.
- 3. Claim 1 discloses a home network system 12 (Figure 1) comprising:

at least one slave device 30 (50, 52, 54, 56, 58, 60, 62, 64, 66) and 36 (72, 74, 76); and a master device 14 operatively connected to the slave device, the master device comprising:

a microprocessor operatively connected to the slave device **112** (Figure 2, p8, lines 27-29) for repeatedly sending a status request signal to the slave device and receiving one or more response signals from the slave device;

a memory coupled to the microprocessor **118** (Figure 2, p8, lines 17-22) for constructing an operation history database by accumulatively storing operation status data included in each response signal **214** (Figure 4 p12, lines 23-25), wherein the microprocessor extracts data from the operation history database when a history inquiry request is received from a user;

and a display unit coupled to the microprocessor for displaying the extracted operation history data **42** (Figure 1, p8, lines 23-26).

Hofrichter, in his invention, discloses a home network system that determines and provides a home network system configuration profile for at least one selected one of the electronic devices in the system and providing it to a server computing system via the Internet data collecting technology for a home network system. Hofrichter also discloses that the controller (gateway device) is communicatively coupled with each of the electronic devices via the home network. It is also communicatively coupled with a display unit (p3, lines 16-22). The gateway determines the device ID information associated with at least one selected one of the electronic devices and determines a configuration profile based on device ID information, and includes history of use of the

home network as one the parameters (p3, line 23-26 & p3, line 31 – p4, line 1). He additionally discloses that the gateway is operative to execute remote interactive diagnosis support service application and maintenance support service applications (p8, lines 22-26). Hofrichter does not explicitly disclose in his description for his invention that a status request is repeatedly sent to at least one of the home network devices and a response back is received from the one or more selected devices. Hofrichter does disclose that the history data files are stored in a database or holding unit (p12, lines 22-25). He does not explicitly disclose that the data can then be extracted for display on a display unit.

However, Aizu, in a similar endeavor, discloses an appliance data collecting system and method for a home network system (Aizu: Col 1, lines 48-52) comprising: sending status request signals to a plurality of slave devices, respectively (Aizu: Figure 3, 7, 16A & 17A/B; Col 1, lines 51-59; Col 2, lines 8-21 & Col 7, lines 32-51); receiving one or more response signals sent by each slave device in response to the status request signals (Aizu: Figure 3, 7, 16A & 17A/B; Col 2, lines 8-21 & Col 7, lines 37-43); constructing an operation history database in a memory by accumulatively storing operation status data included in each response signal into the memory 118 (Hofrichter: Figure 2; p12, lines 22-25); alternatively 5 (Aizu: Figure 18; Col 20, lines 1-6); and extracting data from the operation history database when a history inquiry request is received from a user, wherein the extracted operation history data is displayed on a display unit (Aizu: Col 19, lines 63-67).

It would therefore be obvious to one of ordinary skill in the art at the time of the invention to incorporate the steps described by Aizu for obtaining the operation history information or operational status of the selected home devices, periodically and/or at predetermined times, into Hofrichter's so that collection of the data for history information or operational status of the selected home device(s) can be properly performed for a home network system, such as the home network system disclosed by Hofrichter (Aizu: Col 2, line 5-20).

Claim 9 and 15 are also thus rejected using the same rationale discussed above for Claim 1 as the claims differ only by their statutory category.

4. Claim 2 asserts the home network system of claim 1, wherein the microprocessor identifies the at least one slave device by checking their identifications (IDs) (Hofrichter: p3, lines 23-26; p8, lines 27-29).

Claim 16 is also rejected using the same reason discussed above in #4 for Claim 2 as the claims differ only by their statutory category.

5. Claim 6 identifies the home network system of claim 1, wherein the master device is any one of a television (TV) receiver **60**, a refrigerator having a display panel,

activated or not.

a personal computer (PC) 50, and a personal data assistant (PDA) device 52

(Hofrichter: p2, lines 17-23; also p6, lines 28-33).

6. Claim 7 recites the home network system of claim 1, wherein the memory accumulatively stores the operation status data included in each response signal, regardless of whether a message BLOCK function of the master device is currently

Hofrichter discloses that the history data/log files are stored in a database or holding unit (Hofrichter: p12, lines 22-25).

Claim 14 is also rejected using the same rationale for Claim 7 given that they are identical claims that differ only by statutory category.

7. Claim 3 states the home network system of claim 1, wherein the displayed operation history data includes a list of operations or events performed by *the* slave device during a predetermined period of time.

Claim 4 cites the home network system of claim 1, wherein the history inquiry request received from the user *includes a user selection of a period of time*, and the displayed operation history data includes a list of operations or events performed by *each slave device* during the selected period of time.

Claim 11 points to the television (TV) receiver of claim 9, wherein the displayed operation history data includes a list of operations or events performed by the *slave devices* during a predetermined period of time.

Claim 12 references the television (TV) receiver of claim 9, wherein the history inquiry request received from the user includes a user selection of at least one slave device, and the displayed operation history data includes a list of operations or events performed by each selected slave device during a predetermined period of time.

Claim 13 states the television (TV) receiver of claim 9, wherein the history inquiry request received from the user includes *a user selection of a period of time*, and the displayed operation history data includes a list of operations or events performed *by each slave device* during the selected period of time.

Claim 17 denotes the method of claim 15, wherein the displayed operation history data includes a list of operations or events performed by the plurality slave devices during a predetermined period of time.

Claim 22 points to the method of claim 15, wherein the history inquiry request received from the user includes a user selection of at least one slave device, and the

displayed data includes a list of operations or events performed by each selected slave device during a predetermined period of time.

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Claim 23 asserts the method of claim 15, wherein the history inquiry request received from the user includes *a user selection of a period of time*, and the displayed operation history data includes a list of operations or events performed *by each slave device* during the selected period of time.

Hofrichter, in his invention, discloses a home network system that determines and provides a home network system configuration profile for at least one selected one of the electronic devices in the system and providing it to a server computing system via the Internet data collecting technology for a home network system (p3, lines 15-22 & lines 23 - p4, lines 1-3). Hofrichter also discloses that system reads log files to determine the history of use of the devices 30,36 (Figure 1) in the home network. The log files include information indicating applications and media contents previously used in the home network system (p12, lines 22-25). Hofrichter does not specifically disclose that the history inquiry or device status request received from the user includes a user selection of a period of time, and the displayed operation history data includes a list of operations or events performed by each slave device/s during a predetermined or selected period of time.

However, in his invention, Aizu discloses data collecting technology for home appliances in an electric power line communication system in a home networking system (Aizu: Col 1, lines 6-10 & 48-52). In an embodiment for the invention, Aizu discloses that the invention includes a data recording unit 12c of a display terminal 25, holds information that represents history of operations received from the user through the screen display unit 8, and referred to as "operation history information". The file contains the kinds or the times of the screen referred to in one hour. The display terminal operation history transmission unit reads out the operation history information from the file recorded every startup of the display terminal 25 or every predetermined time (Aizu: Col 19, lines 35-50). The file holding the operation history information or current device status can be configured to obtain the information over any given time period per time unit, according to user preferences (Aizu: Col 7, lines 44-56; Col 19, lines 63-67; Col 20, lines 24-31 and 54-61; Col 21, lines 11-15).

Thus, it would be obvious to one of ordinary skill in the art at the time of the invention to incorporate the periodical/user-selectable time recording/extracting feature of Aizu's invention for obtaining the operation history information or operational status of the selected home devices into Hofrichter's in order to ascertain and /or monitor the historical operational use or status of any of the home devices in the home network system according to desired user preferences (i.e. holding 24 hours worth of operation history information in one hour increments for selected slave devices) (Aizu: Col 21, lines 11-15).

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8. Claim 5 references the home network system of claim 1, wherein the operation status data included in each response signal includes information indicating initiation or completion of an operation and a corresponding time of the initiation or completion (Aizu: Fig. 23A/B, 29A/B, 7, & 32; Col 19, lines 63-67 & Col 20, lines 24-31 and 54-61)

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Claim 19 states the method of claim 15, wherein the operation status data included in each response signal includes information indicating initiation of one or more operations by a slave device and a time of the initiation.

(Aizu: Fig. 7, 23A/B, 29A/B & 32; Col 19, lines 63-67 & Col 20, lines 24-31 and 54-61)

Claim 20 identifies the method of claim 15, wherein the operation status data included in each response signal includes information indicating completion of one or more operations by a slave device and a time of the completion.

(Aizu: Fig. 23A/B, 29A/B, 7, & 32; Col 19, lines 63-67 & Col 20, lines 24-31 and 54-61)

Claims 5, 19, and 20 are thus rejected given the same rationale discussed for the claims in #7 above.

9. Claim 8 notes the home network system of claim 1, wherein the microprocessor and the at least one slave device are connected together through Power Line Communication (PLC) modems 1 (Aizu: Figure 1; Col 5, lines 38-42).

Claim 8 is rejected using the same rationale discussed above in #3 for Claim 1.

Claim 10 is also rejected for the same reasons cited for Claim 8 given that they are identical claims that differ only by statutory category.

10. Claim18 references the method of claim 15, wherein the operation status data included in each response signal includes data indicating a current operation status of a slave device.

Claim 21 states the method of claim 15, wherein the operation status data included in each response signal includes information indicating that there is no operation in progress.

Hofrichter discloses that the controller (gateway device) is communicatively coupled with each of the electronic devices via the home network. It is also communicatively coupled with a display unit. The gateway determines the device ID information associated with at least one selected one of the electronic devices and determines a configuration profile based on device ID information, and includes history of use of the home network as one the parameters (p3, line 19-26 & p3, line 32 – p4, line 1). He additionally discloses that the gateway is operative to execute remote interactive diagnosis support service application and maintenance support service applications (p8. lines 23-26). Hofrichter does not explicitly disclose in his description

for his invention that the diagnosis and maintenance support is based on information indicating the operational status of the slave devices.

Aizu, for his invention discloses that operation history information is extracted from the controller 24 (gateway device) and acquires the user's operation situation (status) and the like at the display terminal 25 from the information (Aizu: Col 19, lines 63-67).

Claims 18 & 21 are rejected using the same rationale discussed for the claims in #7 above.

11. Claim 24. The method of claim 15, wherein the user automatically makes the history inquiry request by turning the power of a master device on (Aizu: Col 19, lines 44-53).

Claim 24 is rejected using the same rationale discussed for the claims in #7 above.

12. Claim 25. The method of claim 15, wherein the user manually makes the history inquiry request by activating a corresponding function key provided within the master device (Aizu: Col 6, lines 16-34).

Claim 25 is rejected using the same rationale discussed for the claims in #7 above.

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Conclusion

1. The Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

- 2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
 - Han et al, Patent Publication No. 04/0111496 A1
 Home Network System and Method for Adding and/or Deleting Home Appliances
 - Yu, Patent Publication No. 04/0049771 A1
 Home Network Apparatus, Method and Controlling Home Network and System Using the Same

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenford Madamba whose telephone number is 571-

272-7989. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung can be reached on 571-272-3932. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Glenford Madamba Examiner Art Unit 2151

ZARNI MAUNG SUPERVISORY PATENT EXAMINER